



PATENT  
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ABSTRACT

Human monoclonal antibodies (mAbs) which bind to human TNF $\alpha$ . Autoantibodies of both the IgM and IgG isotypes are disclosed. A preferred human monoclonal antibody is known as B5 (F78-1A10-B5 mAb) and it binds to recombinant human TNF $\alpha$  (rhTNF $\alpha$ ) in ELISA format with a titer comparable to three high affinity neutralizing mouse mAbs. It also binds to cell surface TNF $\alpha$  and prevents TNF $\alpha$  secretion by human monocyte cell lines.